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PRELIMINARY ASSESSMENT AND SITE INSPECTION

OF

ROCKY MOUNTAIN BANK NOTE

COLORADO SPRINGS, COLORADO

TDD R8-8303-07

COTTROCASS 858

Submitted to: Keith Schwab, FIT RPO John Wardell, REM RPO

Submitted by: Michael Glaze, FIT Project Officer

April 28, 1983

PRELIMINARY ASSESSMENT AND SITE INSPECTION ROCKY MOUNTAIN BANK NOTE, COLORADO SPRINGS, COLORADO

I. INTRODUCTION

This report has been prepared to satisfy the requirements of Technical Direction Document (TDD) R8-8303-07, issued to the Ecology and Environment, Inc., Field Investigation Team (Fit) by Region VIII, U. S. Environmental Protection Agency (EPA).

The Preliminary Assessment (PA) of the Rocky Mountain Bank Note site was developed based on information submitted to EPA by that company in the form of a "Notification of a Hazardous Waste Site". The PA was conducted during the week of April 2, 1983.

The Site Inspection (SI) of the Rocky Mountain Bank Note Site was conducted by Michael Glaze and Malcolm Castor on 8 April, 1983. Permission to conduct the site inspection was granted by Mr. Richard Grapp, Plant Manager of Rocky Mountain Bank Note. Mr. Grapp was the only contact made during the inspection.

This report includes a site description and site recommendations. Preliminary Assessment and Site Inspections forms are included in Appendices A and B, respectively. Supporting photographs are attached in Appendix C.

II. SITE DESCRIPTION

The site is a printing office operated by Rocky Mountain Bank Note (RMBN) (Figure 1). The land is owned by Victor J. Ferrari, address unknow. This site is located in T. 14 S., R. 65 W., Section F, on a half acre of land at 715 Valley Street. The area is east of Colorado Springs in an industrial park (Figure 2). The area is a former broad dry wash, and the land slopes gently towards the west where a stream bed was formerly located. City workers have diverted the stream further westward. The hill slope behind the RMBN office was excavated to construct the buildings along east Valley Street. An embankment, 30 to 40 feet high, is approximately 100 feet behind RMBN's office. Periodically, seeps occur along the embankment, and on

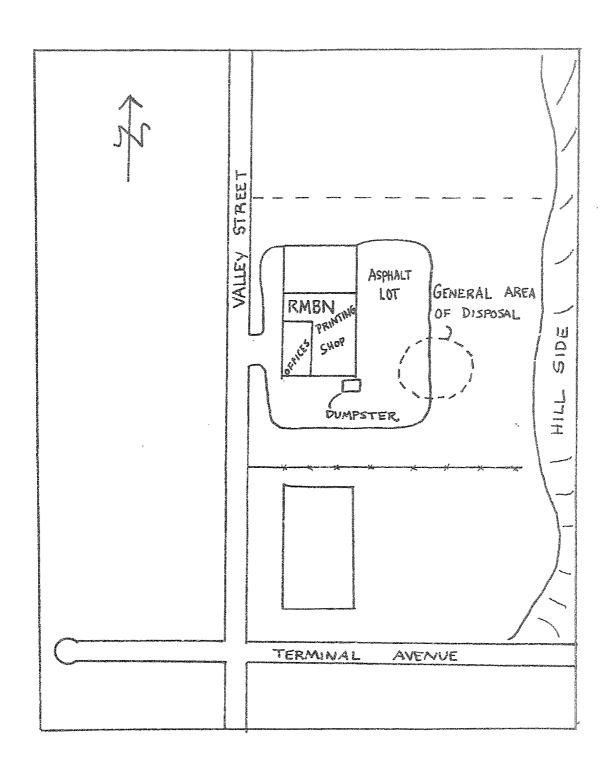


FIGURE 1: GENERAL SITE MAP OF ROCKY MOUNTAIN BANK NOTE OFFICE, COLORADO SPRINGS, COLORADO

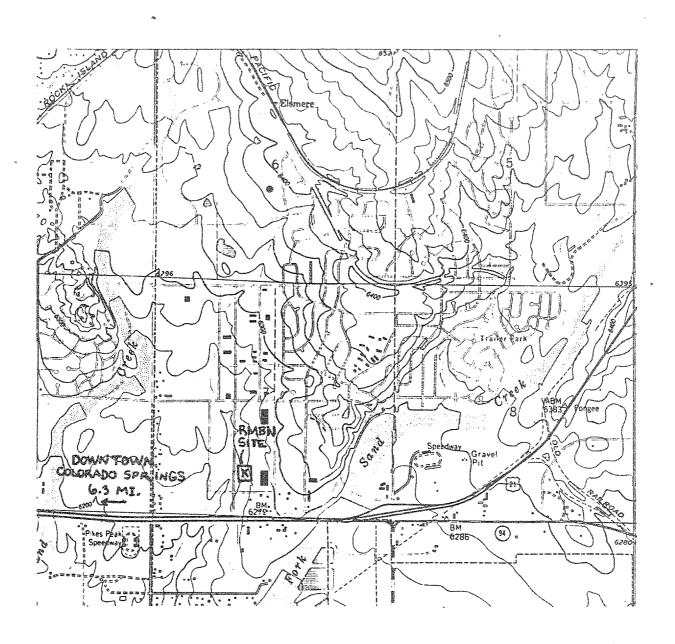


FIGURE #2 LOCATION MAP OF ROCKY MOUNTAIN BANK NOTE OFFICE

a couple of occasions, small landslides have occured from slope destabilization.

The office is a branch printing office which prints checks. For a brief period of approximately two to three months in 1980, waste solvent resulting from cleaning numbering machines was poured in the lot behind the office. Mr. Grapp estimates that a maximum of 30 gallons of cleaning fluid were disposed of in this manner. He indicated that the fluid was poured on both the bare earth and the asphalt parking lot in September and October, 1980. The cleaning fluid has been analyzed and consists of:

75% methylene chloride 15% methanol 9% D-25 (possibly an emulsifier) 1% water

A manufacturer's description of the product is included in Appendix D. Disposal was stopped due to company concern about the practice. Currently, RMBN pours the solvent over waste check cuttings in the sanitation dumpster, where the solvent either evaporates or is hauled to the dump. They still produce approximately 1/2-gallon per week.

Photograph Nos. 1 and 2 at the site are shown in Appendix C. The area of dumping is not defined, and Mr. Grapp indicated that basically, workers carried the solvent from the building and just tossed the solvent at the far end of the parking lot.

Approximately or year ago, the Cherokee Water District (CWD) detected gasoline in their waste water lines and questioned several businesses along Valley Street, including RMBN, about the source of the gasoline. They found that the company immediately south of RMBN had leaking fuel tanks. Since that time, CWD has monitored water from the waste water line located under Valley Street for organics. This line also intercepts groundwater which is very near the surface. They have not seen halogenated organics in their analyses which would indicate contamination due to RMBN.

III. RECOMMENDATIONS

Preliminary Assessment and Site Investigations Forms are provided in Appendices A and B. Although RMBN did not properly dispose of hazardous materials which consisted primarily of waste methylene chloride in a cleaning solution, the amount which was thrown out is not of significant quantity to warrant further investigation. The Cherokee Water District has been monitoring water in their wastewater intake located in the middle of Valley Street in front of RMBN. They have not detected any halogenated hydrocarbons. It is recommended that no further action is needed to investigate this site.

APPENDIX A
PRELIMINARY ASSESSMENT FORM

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POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION | SITE NUMBER (10 be som

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NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries on-alte inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through Assessment). File this form in the Regional Hazardous Waste L Agency; Site Tracking System; Hazardous Waste Enforcement To	og File and sul	omit a convio: Il.b	o. Environ	mental Protection 3					
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A. SITE NAME Rocky Mountain Bank Note B. STREET (or other Identifier) 715 Valley Street D. STATE E. ZIP CODE F. COUNTY NAME									
Colorado Springs G. OWNER/OPERATOR (Il known)	Co	E. 216 CODE 80915	F. COUNT	Pasa					
G. OWNER/OPERATOR (II known)		9	2. TELEP	HONE NUMBER .					
Rocky Mountain Bank Note			303-	574-0150					
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EPA Form T2070-2 (10-79)

PAGE 4 OF 4

APPENDIX B
SITE INSPECTION FORM

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

VIII

REGION SITE NUMBER (to be resign-

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Leg File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Er. ricommental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335); 401 M St., SW; Washington, DC 20460.

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Continued from Page 2									
C. PHOTOS	-	IV. SAMPLING INFOR	₹M	ATION (continued)	DOMESTICAL SERVICE SER	us akkanang nimentarang rang madalan nang ikke naman pamban dalang manahan jahap danaksak Seban Habban ada man			
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D. SITE MAPPED! No - Sketch accompanies report Tyes, species 1 Ocation of Maps									
D. SITE MAPPED! No - SKI	etch	accompanies report	**********		C.M.SC.	The second secon			
YES. SPECIFY LOCATION	OF M.	APS:				•			
E. COORDINATES									
1. LATITUDE (degminsec.)			,						
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38°50′;	\overline{x}	-	L	104° 42′ 30′					
A. SITE STATUS		V. SITE INFO	OR	MATION		200 - 100 -			
municipal sites which are being u	sed	2. INACTIVE (Those sites which no longer receive		X 3. OTHER (specify): POUR (Those sites that include such in	0	ON GROWND AT SITE			
for waste treatment, storage, or di on a continuing basis, even if intr	sposal	wastes.)	OTTO LEGAL	where no regular or continuing us	e of	the site for weste disposal			
quently.)	e			has occurred.)					
B. IS GENERATOR ON SITE?			L						
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2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	eculy	generator's four-digit SIC Code):							
C. AREA OF SITE (in acres)		D ADE THERE BOY							
i -		D. ARE THERE BUILDINGS O	N	THE SITE? City): INDUSTRIAL PARK	,	FACILITY BACK INT			
~ hacre		1. NO 2. YES(s	spe	city): WAS SITE AREA	p a	and a sound some			
CONTRACTOR AND					entra de la company				
Indicate the major site activity/	6010	VI. CHARACTERIZATIO	N	OF SITE ACTIVITY					
Indicate the major site activity(ויא	nd details felating to each ac	X		pri	ate boxes.			
A. TRANSPORTER	Ĥ	B. STORER	D. DISPOSER						
I.RAIL	11'	.PILE		1. FILTRATION	1. LANDFILL				
2.SHIP	2	SURFACE IMPOUNDMENT		2. INCINERATION	2. LANDFARM				
3. BARGE	3	. DRUMS		3. VOLUME REDUCTION	T	3. OPĖN DUMP			
4. TRUCK	4	. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY	1	4. SURFACE IMPOUNDMENT			
5. PIPELINE	5	. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT	T	5. MIDNIGHT DUMPING			
6. OTHER (specify):	LJ°∙	OTHER(specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION			
				7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION			
		Carrier III		8. SOLVENT RECOVERY	K	8.OTHER(specify):			
				9.OTHER(specify):	P	oured on Growd -			
					decreted.				
**************************************	I				-				
E. SUPPLEMENTAL REPORTS: If	the si	te falls within any of the cot	-1-	e listed halon County	Ļ				
which Supplemental Reports you i	nave fi	lied out and attached to this for.		verew, auppremental Repo	* 15 :	must be completed, Indicate			
1. STORAGE	. INC	INERATION 3. LANDFIL	L	4. SURFACE] 5.	DEEP WELL			
6. CHEM/BIO/ PHYS TREATMENT	. LAN	IDFARM 8. OPEN DU	MF	9. TRANSPORTER] 10	J. RECYCLØR/RECLAIMER			
		VII. WASTE RELATI	ED	INFORMATION	(w.idlinge)	中于在1996年的1998年的1996年,1998年的1998年(1998年1998年),中国1998年(1998年),1998年(1998年)(1998年)(1998年)(1998年)(1998年)(1998年)(19			
A. WASTE TYPE				The state of the s	-				
☑-1. LIQUID ☐:	z. sol	ID 3. SLUDGE		4. GAS					
B. WASTE CHARACTERISTICS									
I. CORROSIVE	. IGNI	ITABLE 3. RADIOAC	77.1	VE [] 4. HIGHLY VOLATILE					
		CTIVE 7. !NERT		[] 8. FLAMMABLE					
				L ' O. FLAMMABLE					
S. OTHER (specify):	h	naterial no longe	i.	rvara at					
C. WASTE CATEGORIES	***********			1.4836.0.					
i. Are records of wastes available?						16 a 1990 at			
YES. LETTER WITH ANAI	45 I	s of composition by A	11.4	WUFACTORER OF TOLVE	AT	Was Paguided			
THE REAL PROPERTY AND ADDRESS OF THE PARTY O	WATER STREET, SALES	THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF	CONSIDER.		NOTE PRODUCE THE				

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2. Estimate the amou	int (asu.	SEECONDON'S PREMIUM PARKET	Belly-lower services		gory		'X' to indi MICALS	cale	e. SOLIDS	s are p	res	ient.	
a. SLUDGE	AN	b. OIL	OIL c. SOLVENTS d. (are construction of the contract of		AMOUNT			AMOUNT				
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S PAINT.	х.	OILY WASTES	×	1) HAL SOL	. DGEN VENTS	ATED 5	Х.	11) AC10	9 \$	X.	(1) FLYASH		, ж	II) LABORA AMRAHO	TORY.
(2) METALS SLUDGES	-	210THER(apacity)):	(2) NON	VENTS	SGNTD.		121 PICK	LING ORS		121 ASBESTOS			(2) HOSPITA	· L.
(3) FOTW			-	13107				(3) C A US	TICS		131 MILLING/A	UNE		(3) RADIOAC	CTIVE
14) ALUMINUM SLUDGE	-		X	for 2	-3 M	105,		(4) PEST	ICIDES	-	(4) FERROUS	SMELT.		(4) MUNICIP	A (_
(5) OTHER(opecify):	Out a hander to the desired to		art, professional contractions					(5) DYES	6/INKS	_	(8) NON-FERR	OUS STES		(S) OTHER(specif
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hazard in the space	pro		general per de Sendre												
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F. CONTAMINATION OF GROUND WATER	
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G. CONTAMINATION OF SURFACE WATER	
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NAME OF THE PARTY	
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with the d From Front and the construction of the second construction and the second construction of the second construction o	VIII. HAZARD DESCRIPTION (continued)	entral des la
H. DAMAGE TO FLORA/FAUNA		
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I. FISH KILL		
. CONTAMINATION OF AIR		
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K. NOTICEABLE ODORS		
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L. CONTAMINATION OF SOIL		ang dia katan santan mengingkata an santan di dahan perpakatan didak nakah kepasa menungan perbasa santan berbasa 1 884
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N. PROPERTY DAMAGE		
ILIM. PROPERTY DAMAGE		
EPA Form T2070-3 (10-79)	PAGE 6 OF 10	Continue On Page 7

EPA Form T2070-3 (10-79)

Continued From Page 6	I. HAZARD DESCRIPTION (continued)	
N. FIRE OR EXPLOSION	The second secon	
O. SPILLS/LEAKING CONTAINERS/RUNOFF/S	STANDING LIQUID	
and G. Straust Carrier and Car		
P. SEWER, STORM DRAIN PROBLEMS		
P. SEWER, STORM DRAIN PROSECUE		
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Q. EROSION PROBLEMS		
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S. INCOMPATIBLE WASTES		
STATE OF THE STATE		
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	PAGE.70F.10	intinue On Reverse

	THE PARTY OF THE P	VIII. HAZARD DESC	RIPTION (continued)		
T. MIDNIGHT DUMPING					
U. OTHER (specify):					
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er er					
					ektoonide (it salahis salat ketambaks aktistooni tiras babat salat missensat i
	IX.	OPULATION DIREC	TLY AFFECTED BY SI	TE	
			C. APPROX. NO. OF PEO	PLE D. APPROX. NO.	E. DISTANC
A. LOCATION OF POPULATION		APPROX. NO. OPLE AFFECTED	AFFECTED WITHIN UNIT AREA	OF BUILDINGS AFFECTED	(specify units
			*		
1.1M RESIDENTIAL AREAS	1 ~	250		~80	Klmi
	1				
2. OR INDUSTRIAL AREAS	~	200	~50	~ 30	< mi
IN PUBLICLY	1	***************************************	A Second Control of the Control of t		
S. TRAVELLED AREAS	1				
4 FUBLIC USE AREAS 4 (perks, schools, stc.)					
"(perks, schools, stc.)			DAILE PAR DELFAR DA	C A	PROTESTANCE AND RESERVED THE PROPERTY.
A. DEPTH TO GROUNDWATER(OPOC	ify unit)	A. WATER AN	D HYDROLOGICAL DAT	C. GROUNDWATER USE	IN VICINITY
~ 1 to 5 Feet	,,	Sout	4	None	• •
D. POTENTIAL YIELD OF AQUIFE	3	F. DISTANCE TO DR	INKING WATER SUPPLY	F. DIRECTION TO DRIN	KING WATER SUF
UNKNOWN		Legocity unit of me 22 WIRS from	n Site		<u> Asī</u>
G. TYPE OF DRINKING WATER SUP				Did i	
1. NON-COMMUNITY X	2. COMM	UNITY (specify lown): ONNECTIONS —	Cherokee Wate	a <u>Uistrict</u>	arment years personal of the desire a second of the second
£		war a war dawa dayor di ini den 1998			
3. SURFACE WATER &	4. WELL	PORTINATARY CONTRACTOR SERVICE AND	E 8 OF 10	C or	itinue On Page 9
m Tongh 9 /10.701		and the first	IC G UT IV		

Continued From Page 8	
	X. WATER AND HYDROLOGICAL DATA (continued) WELLS WITHIN A 1/4 MILE RADIUS OF SITE NO DRINKING WATER WELLS WAREA
H. LIST ALL DRINKING WATER	
1. WELL 2. DEPT: (specify uni	3. LOCATION MUNITY ITY
Explanation of the Control of the Co	
I. RECEIVING WATER	
1. NAME	3. STREAMS/RIVERS 4. LAKES/RESERVOIRS 5. OTHER(epectly):
6. SPECIFY USE AND CLASSIE CHEROKAL WELL	ICATION OF RECEIVING WATERS DISTRICT WASTE WATER LINE
	XI. SOIL AND VEGITATION DATA
LOCATION OF SITE IS IN	B. KARST ZONE C. 100 YEAR FLOOD PLAIN D. WETLAND
E. A REGULATED FLOO	OWAY F. CRITICAL HABITAT G. RECHARGE ZONE OR SOLE SOURCE AQUIFER XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED
Mark 'X' to indicate the type	(s) of geological material observed and specify where necessary, the component parts.
A. CVERBURDEN	B. BEDROCK (apacity below) C. OTHER (apacity below)
X 1. SAND X	Dawson Formation - Shales
X 2. CLAY	
3. GRAVEL	
	XIII. SOIL PERMEABILITY
A. UNKNOWN D. MODERATE (10 to .1 c	B. VERY HIGH (100,000 to 1000 cm/sec.)
G. RECHARGE AREA 1. YES 2. NO	3. COMMENTS:
H. DISCHARGE AREA 1. YES 2. NO	WATER DISCHARGE FROM EMBANKMENT IMMEDIATELY SEAS: 3. COMMENTS: OF OFFICE BUILDING
1. SLOPE 1. ESTIMATE & OF SLOPE A 1-5°	2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.
J. OTHER GEOLOGICAL DATE AREA FORMERLY IS Shales of D	DRY WASH . MATERIAL AT SURFACE IS ALLUVIUM. BEDROCK GEOLOGIAN SON FORMATION.
	PAGE 9 OF 10 Continue On Reverse
EPA Form T2070-3 (10-79)	PAGE 9 OF 10 Continue on Reverse

		XIV. PERMIT INF	ORMATION		dispublikasi observatornom pro-	y og av z sayloninoma. zanovi nomi n	nyawanna andarkana Project St. W. W.
List all applicable permits he	eld by the site and	provide the related i	nformation.		processor and the second		representation and and and
The second secon		and the control of th	O. DATE	E. EXPIRATION		COMPLI	
A. PERMIT TYPE	B. ISSUING AGENCY	C. PERMIT NUMBER	ISSUED (mo.,day,&yr.)	DATE (mo.,day.&yf.)	1. YES	2 · NO	3. UN- KNOW!
	XV. PAST marizo in this space) ago Cherri inspected variginal supp varehouse y have no ved any b	REGULATORY OR I okee Water Di water Coming ed but the i immediately nonitored Await	strict discov from busines: vater district south of Ru ter from the	ered yasolingses in area of discover MBN's built se office burns. This	e in to	their water the Sin Matro	waste ountain ence ce

EPA Form T2070-3 (10-79)

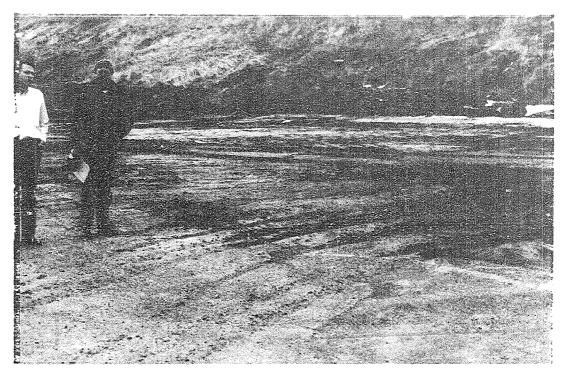
PAGE 10 OF 10

NOTE: Based on the information in Sections III through XV, fil) out the Tentative Disposition (Section II) information on the first page of this form.

APPENDIX C
PHOTOGRAPHIC LOG

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Sand !



PHOIO #1 ESTIMATED AREA WHERE CLEANING SOLVENT WAS POURED ONTO GROUND AT ROCKY MOUNTAIN BANK NOTE

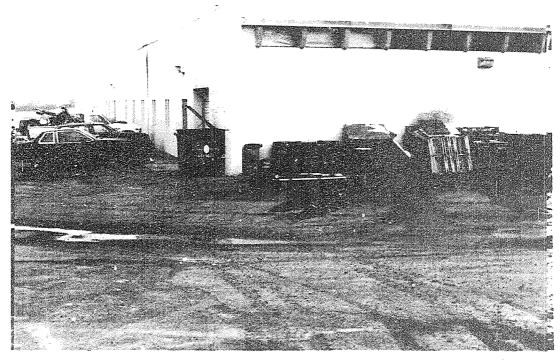


PHOTO #2 REAR OF RMBN PRINTING OFFICE, SHOT FROM DISPOSAL AREA ACROSS ASPHALT PARKING AREA

APPENDIX D
DESCRIPTION OF MATERIAL

RAA

FY

Rocky Mountain Bank Note

P O. Box 1420 Lawrence, Kansas 66044 913/841-1310 (Telex 42-305)

Memo:

October 27, 1980

FROM: Larry Burt

RE: Numbering Machine Cleaner - used in Lawrence

Attached sheets are from the lab report done on JH 55 and also the formula and mixing instructions for the numbering machine cleaning fluid we are using.

Barton has assigned #C-706 as a permanent number for this cleaner, so this should be referred to in any correspondence with Barton.

Per instructions from Barton, the mixing instructions are very important as some items in the formula are much heavier than others and will not mix satisfactorily if they should be added first.

We are paying Barton \$3.43 per gallon in 55 gallon quantities - delivered - which is considerably less expensive than the JH 55 at this time.

My suggestion would be to get 5 gallons or so mixed locally for a trial; then go from there on price and quantity. It's proven to be very effective for us with considerable savings in cost.

If I can help, please call.

Best Regards,

· · · / / ·

jmg



BARTON SOLVENTS

KANSAS BRANCH

P.O. BOX 366 . 201 SOUTH CLDAR . VALLEY CENTER, KANSAS 67147 . PHONE (316) 755-2305

October 23, 1980

Rocky Mountain Check Book 2220 Deleware Lawrence, Kansas 66044

Attn: Larry Birt

Dear Larry:

In reference to your question on the formula of the stencil ink remover, you use C-706:

75% Methylene Chloride
15% Methanol
9% D-25
LUBRICANT? 1% Water

.N NUMBERING MACNINE CLEANER

*Mix water with D-25 and then with Methanol and then add the Methylene Chloride. Enclosed is the lab report on this.

If you have any questions, please do not hesitate to call us. Thank you.

Very truly yours,

BARTON SOLVENTS, INC. Kansas Branch

Leon Quandt

LQ:ss Enclosure

Oklahoma Refining Company

P.O. Box 26386 Oklahoma City, OK 73126

LABORATORY REPORT

From The RESEARCH DIVIGIUS 3921 North Ravenswood Avenue Chicago, Himor (2004) Phone 342 (523) 8228

A	74% 74% 10% 1%	66 is composed of: Methylene Chlorid Methanol Ammonia Water Emulsifier	e		Report No.	THE THE ME TO BE THE ME THE ME THE ME THE ME TO BE THE ME TO BE THE ME TO BE THE ME THE ME TO BE THE ME TO BE THE ME TO BE THE ME
- 3	Firm Name	Rocky Mountain C	heck Book		Sample Received '7' Work Started '7'	
-	Address	Wichita , Kansas <i>Kewronc</i> e			Work Completed	
	Requested by	Mr, L. Burt				
1	Handled by	Mr. L. Quandt, 33	irton Solv	ents, Val. er Cente	er, romus	
1	PROBLEM:	Match submitted :	numple of .	JH55 Classon.		
	RESULTS:	Apoo 3 6056 was ophysical data fro	developed on the sub	s using Gas Oblower: mitted solvent.	onancintay india	
	Flammability Residue Odor from Filt Refractive Inde Acidity or Cau Corrosion	C.CT.O.CC.O.C On Watch ClassFrom 100 ml er Paper	_P.M.	X Acid Absorption X Water Absorption Barrom Chloride Absorption Kaurr Bulanol Solvency X Mixed Aniline Pointof Aniline Pointof Solvency Parameters (HKB, 1 X Material Safety Data Sheet X Labet Benzene Replacement Rule 66 Replacement Tests in Coatings X Gas Chromatographyo Special Tests	*KB, DKB)	5-19 a
- Committee of the Comm			(See following shee	- 11.		. E. m. s.
e	3 A C B CM		are present them.	had had allow a conservation		

S. T. M. DISTILLATION (Mathod D86)

The Control of the Co	Submi	tted JH55 Cleaner
The state of the s	100	
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	10% 20%	98 99
	30%	99
	40% 50%	100 100
	60% 70%	102 123
	80%	
	90% 95%	assa danto
; ; · ·	Dry Point	123
SPECIFIC GRAVITY	<u> </u>	
Submitted C	leaner	1.230
ACID ABSORPTION (I	Distillate)	•
Submitted C	leaner	12%
WATER ABSORPTION	(Distillata)	
Submitted C	leaner	10%

MIXED ANILINE POINT (Acid Insoluble)

32°F/0°C Submitted Cleaner

FLAMMABILITY -

Industrial Labeling OSHA Cl :s.

Submitted Cleaner

01.03: 11 Combustible

GAS CHROMATOGRAPHY

Gas Chromatography was used to identify the components of the distillate and acid insoluble of the submitted sample.



Ashland Chemical Company

DIVISION OF ASHLAND DIL. INC.

5200 PAUL G. BLAZER MEMORIAL PARKWAY, DU9LIN, OHIO 43017 . (614) 889-3333

ENVIRONMENTAL AND OCCUPATIONAL SAFETY DEPARTMENT

August 9, 1982

REPLY TO: P.O. Box 2219 Columbus, Ohio 43216

R. H. Toeniskoetter, Manager

Rocky Mountain Bank Note Attn: John Vradenburg P. O. Box 1664 'Colorado, Springs, CO 80901 TUPE OLEANSE

JUPE ON RAGIN

13ED WIPE DOWN

TO WIPE EVAPORATION

DISPOSAL BY EVAPORATION

PROM PARTY EVAPORATION

PERCHLOROGENATION

MARCHARITATION

MARCHARI

Dear Customer:

In response to your recent request, an Ashland Material Safety Data Sheet is enclosed for the following product(s):

EC 100

If you have any questions, please contact me.

Very truly yours,

Tracy G. Smith Product Safety Coordinator

TGS/s:

Enclosure(s)

MATERIAL SAFETY DATA SHEET

ASHLANC PRODUCT NAME: EC 100

DATA SHEET NC: 0067961-001 LATEST REVISION DATE: 11/78-78305

GENERAL OR GENERIC IC: BLEND

HAZARE CLASSIF CATIEN: (99) NOT APPLICABLE

INGREDIENT	PERCENT	TLV	\$\frac{1}{2}\$.
CHLORINATED HYCHOCARBON	10-30 %	100 PPM	1 ·
CHIORINATED HYDROCAPBON	>60 %	350 PPM	

PFCPFRTY	REFINE	WENDUREMENT	
INITIAL BOILING POINT.	FOR COMPONENT (>60	%)	162.CO DEG F (72.22 DEG C) a 760.CO MMHG
VAPOR PRESSURE	FOR COMPONENT (>60	n diak dian dian dian dian dian dian dian dian	100.00 MMHG a 68.00 DEG F (20.00 DEG C:
VAPOR CENSITY		ය ජනුතු අනුතු රජුර ගතන සහිජි ශ්රීම ප්රති ප්රති පත්ත පත්ත පත්ත පත්ත පත්ත පත්ත පත්ත පත	HEAVIER THAN AIR
SPECIFIC GRAVITY			GREATER THAN WATE
PERCENT VOLATILES	THE CONTROL WITH MICE AND	to halfs, dath offer date face tilter with size size (date offer open tilter).	100,00 3
EVAPORATION PATE	සාය කාර යෙය. මතුර මාර සහා රටය දවල තුරු තුර අතු ජන සහා සහා සහා සහ රටය වෙන සම අතා ජ	তে আমান কৰ্মণ আৰু তেকে আৰু তত্ত্বক আমান কৰ্মণ কৰে। কৰ্মণ অধ্যৱ _{বিচিন} তৰ্মন কৰ্মণ কৰা কৰ্মণু বেক আমাণ কৰা কৰা	SLOWER THAN ETHE

*********************** SECTION IV-FIRE AND EXPLOSION DATA ************

FLASH POINTED TOPY COME NOT APPLICABLE

LOWER EXPLOSIVE LIMIT (LOWEST VALUE OF COMPONENT)

2 ~ 9

ME ACHOENERIT

EXTINGUISHING MEDIA: WATER FOG

H PROCUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DICXIDE AND CARBON MONOXIDE., HYDRUGEN CHLORIDE, PHOSGENE, ETC.

************* SECTION IV-FIRE AND EXPLOSION DATA (CONTINUED) *************

SPLIAL FIREFIGHTING PROCEDURES: WATER MAY BE USED TO KEEP FIRE-EXPOSED CENTAINERS COCL UNTIL FIRE IS OUT. SELF-CONTAINED BREATHING APPAPATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

UNUSUAL FIRE & FXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON DR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE FXPIOSIVELY.

THRESECLO LIMIT VALUE: NOT ESTABLISHED FOR PRODUCT. SEE SECTION II.

EFFFCTS OF OVEREXPOSURE: FCR PRODUCT

FYFS - CAN CAUSE SEVERE IRRITATION. REDNESS. TEARING. BLUPRED VISION. SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION. DEFATTING. DERMATITIS.

BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL IRRITATION. DIZZINESS. WEAKNESS. FATIGUE, NAUSEA. HEADACHE. POSSIBLE UNCONSCIOUSNESS. AND EVEN ASPHYXIATION.

SWALLIGHING - CAN CAUSE GASTRCINTESTINAL IRRITATION. NAUSFA. VOMITING. DIAFRHEA.

FIRST AID:

IF ON SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING SEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER. LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GFT MEDICAL ATTENTION.

IF SWALLCWFO: GIVE TWO GLASSES OF WATER: INDUCE VOMITING IMMEDIATELY BY STICKING FINGER DOWN THRUAT. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF BREATHED: IF AFFECTED. REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT. ADMINISTER OXYGEN. IF BREATHING HAS STOPPED. GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM. QUIET. AND GET MEDICAL ATTENTION. DE NOT GIVE STIPULANTS. EPINEPHRINE OR EPHEDRINE MAY ADVERSELY AFFECT THE HEART WITH FATAL RESULTS.

HAZARDEUS POLYMERIZATION: CANNOT OCCUR

SYABII ITY: STABLE

INCOMPATABLE ITY: AVOID CONTACT WITH: . STRONG CXIDIZING AGENTS (E. 3. NITRIC ACID. PERMANGANATES, ETC.). STRUNG ALXALIES (E.G. NACH. NH40H. ETC.). · ******************* SECTION VII-SPILL OR LEAK PROCEDURES ******************** PAGE: 3

TEN TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- MALL SPILL: ABSORB LIQUID ON PAPER. VERMICULITE. FLOOR ABSORBENT. CR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.
- ARGE SPILE: ELIMINATE ALL IGNITION SCURCES (FLARES. FLAMES INCLUDING PILOT I IGHTS. ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILE AT SOURCE. DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TE SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND. CLAY. EARTH. FIFOR ABSCRBENT OR OTHER ABSORBENT MATERIAL AND SHOVELLED INTO CONTAINERS. PREVENT RUN-OFF TO SEWERS. STREAMS. OF OTHER BODIES OF WATER.

STE DISPOSAL METHOC:

- ALL SPILL: ALLOW VCLATILE PORTION TO EVAPORATE IN HUOD. ALLOW SUFFICIENT TIME FCR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. DESTROY REMAINING MATERIAL
- GF SPILL: DESTROY BY LICUID INCINERATION WITH DEF-GAS SCRUBBER. MATERIAL CULLECTED ON ABSORBENT MATERIAL MAY BE DEPOSITED INA POSTED TOXIC SUBSTANCE LANDFILL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.
- ********* SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED ***********
- PIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSHAMSHA JCIATLY APPROVED SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE IS ACVISED: FOWEVER. CSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT
- ILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL). AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV'S.
- FCTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: , POLYVINYL ALCOHOL
- PRETECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE, ACVISED: HOWEVER. USHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES.
- PROTECTIVE ECUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN-CONTACT, WEAR

************ SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS *********

CONTAINS PERCHLOROFTHYLENE

- THE NATIONAL CANCER INSTITUTE HAS CONCLUDED FROM THE RESULTS OF A BIDASSAY THAT PERCHLOROETHYLENE IS A LIVER CARCINOGEN WHEN GIVEN ORALLY TO LABORATORY TEST MICE.
- CONTAINERS OF THIS MATERIAL MAY BE MAZAPDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR. LIQUID. AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.
 - OVEREXPOSURE TO COMPONENTS HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING FEFFCTS IN LABORATORY ANIMALS:, LIVER ABNORMALITIES, KIDNEY DAMAGE, LUNG CAMAGE
 - OVEREXPOSURE TO COMPONENT HAS BEEN SUGGESTED AS A CAUSE OF THE FOLICWING FFFECTS IN HUMANS:. CARDIAC ABNORMALITY. LIVER ABNORMALITIES. KIDNEY DAMAGE. LUNG CAMAGE. BRAIN DAMAGE. SPLEEN DAMAGE
- THE INFCRMATION ACCUMULATED FEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT APPLICABLE. AND SUITABLE TO THEIR CIPCUMSTANCES.

Ashland Chemical Company

CHVISION OF ASHILAND DIL INC.

Astriand.

MATERIAL SAFETY DATA SHEET

P.O. BOX 2219, COLUMBUS, OHIO 43216 + (614) 889-3333

DEFINITIONS

THIS DEFINITION PAGE IS INTENDED FOR USE WITH MATERIAL SAFETY DATA S BY THE ASHLAND CHEMICAL COMPANY. QUESTIONS CONCERNING THESE SHEETS DIRECTED TO THE ENVIRONMENTAL AND OCCUPATIONAL SAFETY DEPARTMENT. SHEETS

PRODUCT IDENTIFICATION

PRODUCT CLASS: GENERAL OR GENERIC IDENTIFICATION.

HAZARDOUS CLASSIFICATION: PRODUCT M DOT CRITERIA FOR HAZARDS LISTED. MEETS

BECTION II HAZARDOUS COMPONENTS

A HAZARDOUS INGREDIENT IS ONE WHIC MEETS ONE OR MORE OF THE FOLLOWING CRITERIA:

1. 'IT IS LIBTED IN THE ANNUAL RECISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, OR IT IS KNOWN TO BE TOXIC WITHIN THE PARAMETERS OF THAT

AND/OR

IT HAS A OSHA ESTABLISHED, B-HOUR TIME-WEIGHTED AVERAGE PERMISSABLE EXPOSURE LIMIT (PEL) OR ACCEPTABLE EXPOSURE LIMIT (PEL) OR ACCEPTABLE EXPOSURE CO) OR AMERICAN CONFERSION OF GOVERNMENTAL INDUSTRIAL ENCE OF GOVERNMENTAL THE PRODUCT VALUE, AND BY NATURE OF THE PRODUCT VALUE, AND BY NATURE OF THE PRODUCT VALUE, AND BY NATURE OF THE PRODUCT OR ITS KNOWN USE, IT IS LIKELY TO BECOME AIRBORNE.

AND/OR

- IT CONTRIBUTES TO ONE OF MORE OF THE FOLLOWING HAZARDS OF THE PRODUCT:
 - FLASHPOINT BELLOW 200 DEG F (CC), OR SUBJECT TO SPONTANEOUS REATING OR DECOMPOSITION.
 - CAUBES BKIN BURNS. (DOT)
 - STRONG OXIDIZING AGENT. (DOT)
 - SUBJECT TO MAZARDOUS POLYMERIZA-

EACH INGREDIENT MEETING ONE OR MORE OF THE ABOVE CRITERIA IS LISTED IN SECTION THE ABOVE CRITERIA IS LISTED IN SECTION IN ABOVE CRITERIA IN A LEVEL AT LEAST GREATER IN AND ONE PERCENT. INGREDIENTS WHICH ARE CHAIMED TO BE CAUSATIVE AGENTS OF OTHER MUTAGENS, OR CAUSATIVE AGENTS OF OTHER REPRODUCTIVE DISORDERS ARE LISTED IF REPRODUCTIVE DISORDERS ARE CONSIDERED VALID.

EACH MAZARDOUS INGREDIENT IS LISTED BY CHEMICAL, GENERIC, OR PROPRIETARY NAME. STEELSED AS ITS LEVEL IN THE PRODUCT IS EXPRESSED AS IN OR LEGS, 1-10%, 10-30%, 30-60%, OR LEGS, 1-10%, OR BY OTHER MEANS.

SECTION ITA

INVITAL ROLLING POINT: IF LIGUID AT

VAPOR PRESSURE: IF LIQUID AT 68 DEG F

FOR VOLATILE PORTION OF VAPOR PENSITY

SPECIFIC DEPOSITY OF PRODUCT IS NOT KNOWN, INDICATED AS (1, E1, OR >1.

PERCENT VOLATILES: PERCENTAGE OF MATER-IAL WITH INITIAL BOILING POINT BE-LOW 425 DEG F.

Samuel of the last of the last

EVAPORATION RATE: INDICATED AB FASTER OR SLOWER THAN ETHYL ETHER, UNLESS STATED.

PRODUCT TOENTIFICATION

FLASH POINT: CLOSED CUP.

LOWER EXPLOSION LIMIT: INDICATED FOR COMPONENT WITH LOWEST VALUE.

MAZARDOUS DECOMPOSITION PRODUCTS: KNOWN HAZARDOUS PRODUCTS RESULTING FROM HEATING, SURNING, ETC., OR REACT-ED RAW MATERIALS WHICH MAY ARISE THROUGH HEATING, BURNING, ETC.

SPECIAL FIREFIGHTING PROCEDURES: INDIC-ATES EQUIPMENT TO PROTECT FIREMEN FROM TOXIC PROCEDURES OF COMBUST-ION OR IF WATER IS NOT TO BE USED.

UNUSUAL FIRE AND EXPLOSION HAZARDS BEC-HAZARDS NOT COVERED BY OTHER BEC-TIONS OF THIS REPORT ARE SHOWN HERE.

HEALTH HAZARD DATA

RECIPIENTS OF THIS DATA SHEET SHOULD CONSULT THE OSHA BAFETY AND MEALTH STANDARDS (2º CFR 1010), PARTICULARLY STANDARDS (2º CFR 1010), PARTICULARLY SUSPART I CONTROL, AND SUSPART I PERSONAL PROTECTIVE EQUIPMENT, FOR GENERAL GUIDANCE ON CONTROL OF POTENTIAL OCCUPATIONAL HEALTH HAZARDS.

PERMISSIBLE EXPOSURE LEVEL: OSHA ESTABLISHED PEL-IF NONE AVAILABLE, ADOPTED VALUE.

EFFECTS OF OVEREXPOSURE: GIVEN IN GEN-ERAL TERMS; LOCAL AND SYSTEMIC EFFECTS TO THE EVES, SKIN, IF MAT-ERIAL IS INHALED, UNLESS NOT APPLICABLE DUE TO PHYSICAL FORM OF PRODUCT.

REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION RESULTING IN A LARGE RELEASE OF ENERGY.

STABLE UNDER NORMAL CIRCUMSTANCES.

INCOMPATIBILITY: MATERIALS TO AVOID.

SPILL OF LEAK PROCEDURES

REASONABLE PRECAUTIONS TO BE TAKEN AND THE METHODS OF CLEAN-UP TO BE USED IN THE EVENT OF SPILLAGE OF THE PRODUCT CONSULT FEDERAL STATE AND LOCAL REGULATIONS FOR ACCEPTED PROCEDURES AND ANY REPORTING OR NOTIFICATION REQUIREMENTS.

PROISCIANT FOURPHENT TO BE USED

THIS SECTION INDICATES PROTECTIVE EQUUP-MENT TO BE USED WHEN MANGLING THE PRODUCT.

BRECIAL PRECAULIONS OF CINES CAMPAGE THIS SECTION IS TO COVER ANY RELEVANT POINTS NOT PREVIOUSLY MENTIONES.

AGHLAND WISHES TO INFORM YOU THAT GERIOUS ACCIDENTS HAVE RESULTED FROM THE MISUSE OF "EMPTIED" CONTAINERS (DRUMS, 1 AND 5 GALLON PAILS, ETC.). REFER TO SECTIONS IV AND IX.

WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE BY CERTIFIED FIRMS TO HELP REDUCE THE CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE WITH POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" GRUMS SHOULD NOT BE SIVEN TO INDIVIDUALS.